

AMENDMENT TO THE SPECIFICATION

Please amend the description starting at line 3 and continuing to line 17 of page 91 as follows.

pTnMOD (CHOVep-prepro-ent-hGH-CPA)

Bp 1 – 4045 from vector pTnMOD ~~PTnMCS~~, bp 1 - 4045

Bp 4051 – 4725 Chicken Ovalbumin enhancer taken from GenBank accession # S82527.1, bp 1 – 675

Bp 4732 - 6067 Chicken Ovalbumin promoter taken from GenBank accession # J00899-M24999, bp 1-1336

Bp 6074 – 6245 Capsite/Prepro taken from GenBank accession # X07404, bp 563 – 733

Bp 6252 – 6400 Synthetic spacer sequence and hairpin loop of HIV gp41 with an added enterokinase cleavage site

Bp 6401 – 7054 Human growth hormone taken from GenBank accession # V00519, bp 1-654

Bp 7061 – 7468 Conalbumin polyA taken from GenBank accession # Y00407, bp 10651-11058

Bp 7470 – 11069 from cloning vector pTnMOD ~~PTnMCS~~, bp 3716-7315

Please amend the description starting at line 19 of page 91 and going to line 34 of page 91 as follows.

pTnMOD (CMV-CHOVg-ent-ProInsulin-synPA) (SEQ ID NO:42)

Bp 1 – 4045 from vector pTnMOD ~~PTnMCS~~, bp 1 - 4045

Bp 4051 – 5695 CMV promoter/enhancer taken from vector pGWIZ (Gene therapy systems), bp 230-1864

Bp 5702 – 6855 Chicken ovalbumin gene taken from GenBank accession # V00383, bp 66-1219

Bp 6862 - 7011 Synthetic spacer sequence and hairpin loop of HIV gp41 with an added enterokinase cleavage site

Bp 7012 – 7272 Human Proinsulin taken from GenBank accession # NM000207, bp 117-377

Bp 7273 – 7317 Spacer DNA, derived as an artifact from the cloning vectors pTOPO Blunt II (Invitrogen) and pGWIZ (Gene Therapy Systems)

Bp 7318 - 7670 Synthetic polyA from the cloning vector pGWIZ (Gene Therapy Systems), bp 1920-2271

Bp 7672 –11271 from cloning vector pTnMOD ~~PTnMCS~~, bp 3716-7315

Please amend the description starting at line 1 of page 92 and continuing to line 14 of page 92 as follows.

pTnMOD (CMV-prepro-ent-hGH-CPA)

Bp 1 – 4045 from vector pTnMOD ~~PTnMCS~~, bp 1 - 4045

Bp 4051 – 5695 CMV promoter/enhancer taken from vector pGWIZ (Gene therapy systems), bp 230-1864

Bp 5701 - 5871 Capsite/Prepro taken from GenBank accession # X07404, bp 563 – 733

Bp 5879 - 6027 Synthetic spacer sequence and hairpin loop of HIV gp41 with an added enterokinase cleavage site

Bp 6028 – 6681 Human growth hormone taken from GenBank accession # V00519, bp 1-654

Bp 6688 – 7095 Conalbumin polyA taken from GenBank accession # Y00407, bp 10651-11058

Bp 7097 – 10696 from cloning vector pTnMOD ~~PTnMCS~~, bp 3716-7315

Please amend the description starting at line 16 of page 92 and continuing to line 30 of page 92 as follows.

pTnMOD (CMV-prepro-ent-ProInsulin-synPA)

Bp 1 – 4045 from vector pTnMOD ~~PTnMCS~~, bp 1 - 4045

Bp 4051 – 5695 CMV promoter/enhancer taken from vector pGWIZ (Gene therapy systems), bp 230-1864

Bp 5701 - 5871 Capsite/Prepro taken from GenBank accession # X07404, bp 563 – 733
Bp 5879 - 6027 Synthetic spacer sequence and hairpin loop of HIV gp41 with an added enterokinase cleavage site
Bp 6028 – 6288 Human Proinsulin taken from GenBank accession # NM000207, bp 117-377
Bp 6289 – 6333 Spacer DNA, derived as an artifact from the cloning vectors pTOPO Blunt II (Invitrogen) and pGWIZ (Gene Therapy Systems)
Bp 6334 - 6685 Synthetic polyA from the cloning vector pGWIZ (Gene Therapy Systems), bp 1920-2271
Bp 6687 –10286 from cloning vector pTnMOD ~~PTnMCS~~, bp 3716-7315

Please amend the description starting at line 18 and continuing to line 33 of page 93 as follows.

pTnMOD(Chicken OVep+prepro+ENT+proins+syn polyA)

Bp 1 – 4045 from cloning vector pTnMOD ~~PTnMCS~~, bp 1 - 4045
Bp 4051 – 4725 Chicken Ovalbumin enhancer taken from GenBank accession # S82527.1 bp 1-675
Bp 4732 – 6067 Chicken Ovalbumin promoter taken from GenBank accession # J00895-M24999 bp 1-1336
Bp 6074 – 6244 Cecropin cap site and Prepro, Genbank accession # X07404 bp 563-733
Bp 6251 - 6400 Synthetic spacer sequence and hairpin loop of HIV gp41 with an added enterokinase cleavage site
Bp 6401 - 6661 Human proinsulin GenBank Accession # NM000207 bp 117-377
Bp 6662 - 6706 Spacer DNA, derived as an artifact from the cloning vectors pTOPO Blunt II (Invitrogen) and gWIZ (Gene Therapy Systems)
Bp 6707 - 7058 Synthetic polyA from the cloning vector gWIZ (Gene Therapy Systems) bp 1920 - 2271
Bp 7060 – 10659 from cloning vector pTnMOD ~~PTnMCS~~, bp 3716 – 7315

Please amend the description starting at line 1 of page 94 and continuing to line 22 of page 94 as follows.

pTnMOD(Quail OVep+OVg'+ENT+proins+syn polyA)

Bp 1 – 4045 from cloning vector pTnMOD ~~PTnMCS~~, bp 1 - 4045

Bp 4051 – 4708 Quail Ovalbumin enhancer: 658 bp sequence, amplified in-house from quail genomic DNA, roughly equivalent to the far-upstream chicken ovalbumin enhancer, GenBank accession # S82527.1, bp 1-675. (There are multiple base pair substitutions and deletions in the quail sequence, relative to chicken, so the number of bases does not correspond exactly.)

Bp 4715 – 6080 Quail Ovalbumin promoter: 1366 bp sequence, amplified in-house from quail genomic DNA, roughly corresponding to chicken ovalbumin promoter, GenBank accession # J00895-M24999 bp 1-1336. (There are multiple base pair substitutions and deletions between the quail and chicken sequences, so the number of bases does not correspond exactly.)

Bp 6087 – 7285 Quail Ovalbumin gene, EMBL accession # X53964, bp 1-1199. (This sequence includes the 5'UTR, containing putative cap site bp 6087-6139.)

Bp 7292 - 7441 Synthetic spacer sequence and hairpin loop of HIV gp41 with an added enterokinase cleavage site

Bp 7442 - 7702 Human proinsulin GenBank Accession # NM000207 bp 117-377

Bp 7703 - 7747 Spacer DNA, derived as an artifact from the cloning vectors pTOPO Blunt II (Invitrogen) and gWIZ (Gene Therapy Systems)

Bp 7748 - 8099 Synthetic polyA from the cloning vector gWIZ (Gene Therapy Systems)
bp 1920 - 2271

Bp 8101 – 11700 from cloning vector pTnMOD ~~PTnMCS~~, bp 3716 - 7315

Please amend the description starting at line 24 of page 94 and continuing to line 12 of page 95 as follows.

pTnMOD(Quail OVep+prepro+ENT+proins+syn polyA)

Bp 1 – 4045 from cloning vector pTnMOD ~~pTnMCS~~, bp 1 - 4045

Bp 4051 – 4708 Quail Ovalbumin enhancer: 658 bp sequence, amplified in-house from quail genomic DNA, roughly equivalent to the far-upstream chicken ovalbumin enhancer, GenBank accession #S82527.1, bp 1-675. (There are multiple base pair substitutions and deletions in the quail sequence, relative to chicken, so the number of bases does not correspond exactly.)

Bp 4715 – 6080 Quail Ovalbumin promoter: 1366 bp sequence, amplified in-house from quail genomic DNA, roughly corresponding to chicken ovalbumin promoter, GenBank accession # J00895-M24999 bp 1-1336. (There are multiple base pair substitutions and deletions between the quail and chicken sequences, so the number of bases does not correspond exactly.)

Bp 6087 – 6257 Cecropin cap site and Prepro, Genbank accession # X07404 bp 563-733

Bp 6264 - 6413 Synthetic spacer sequence and hairpin loop of HIV gp41 with an added enterokinase cleavage site

Bp 6414 - 6674 Human proinsulin GenBank Accession # NM000207 bp 117-377

Bp 6675 - 6719 Spacer DNA, derived as an artifact from the cloning vectors pTOPO Blunt II (Invitrogen) and gWIZ (Gene Therapy Systems)

Bp 6720 - 7071 Synthetic polyA from the cloning vector gWIZ (Gene Therapy Systems)
bp 1920 - 2271

Bp 7073 – 10672 from cloning vector pTnMOD ~~pTnMCS~~, bp 3716 – 7315

In Appendix A, at page 140, line 61 to page 143, line 46, please delete the paragraph under the heading “SEQ ID NO:43 (pTnMOD(Chicken OVep+OVg'+ENT+proins+syn polyA))” and replace with the following paragraph.

```

1  ctgacgcgcc  ctgtagcggc  gcattaagcg  cggcggggtgt  ggtgggttacg  cgcagcgtga
61  ccgctacact  tgccagcgcc  ctagcgcccg  ctccctttcgc  tttcttccct  tcctttctcg
121  ccacgttcgc  cggcattcaga  ttggctattg  gccattgcat  acgttgatc  catatcataa
181  tatgtacatt  tatattggct  catgtccaac  attaccgcca  tggtgacatt  gattattgac
241  tagttattaa  tagtaatcaa  ttacggggctc  attagttcat  agcccatata  tggagttccg
301  cgttacataa  cttacggtaa  atggcccgc  tggctgaccg  cccaacgacc  cccgcccatt
361  gacgtcaata  atgacgtatg  ttcccatagt  aacgccaata  gggactttcc  attgacgtca
421  atgggtggag  tattttacgt  aaactgcccc  cttggcagta  catcaagtgt  atcatatgcc
481  aagtagcccc  cctattgacg  tcaatgacgg  taaatggccc  gcctggcatt  atgcccagta
541  catgacctta  tgggactttc  ctacttggca  gtacatctac  gtattagtca  tcgctattac
601  catggtgatg  cgggttttgc  agtacatcaa  tgggcgtgga  tagcggtttg  actcacgggg
661  atttccaagt  ctccacccca  ttgacgtcaa  tgggagtttg  ttttggcacc  aaaatcaacg
721  ggactttcca  aaatgtcgta  acaactccgc  cccattgacg  caaatgggcg  gtaggcgtgt
781  acggtgggag  gtctatataa  gcagagctcg  tttagtgaac  cgtcagatcg  cctggagacg
841  ccattccacg  tgttttgacc  tccatagaag  acaccgggac  cgatccagcc  tccgcggccg

```

```

901 ggaacggtgc attggaacgc ggattccccg tgccaagagt gacgtaagta ccgcctatag
961 actctatagg cacacccctt tggctcttat gcatgctata ctgttttttg cttggggcct
1021 atacaccccc gcttccttat gctataggtg atggtatagc ttagcctata ggtgtgggtt
1081 attgaccatt attgaccact cccctatttg tgacgatact ttccattact aatccataac
1141 atggctcttt gccacaacta tctctatttg ctatatgcc aactctgtc cttcagagac
1201 tgacacggac tctgtatttt tacaggatgg ggtcccatth attatttaca aattcacata
1261 tacaacaacg ccgtcccccg tgcccgcagt ttttattaaa catagcgtgg gatctccacg
1321 cgaatctcgg gtacgtgttc cggacatggg ctcttctccg gtagcggcgg agcttccaca
1381 tccgagccct ggtcccatgc ctccagcggc tcatggctgc tcggcagctc cttgctccta
1441 acagtggagg ccagacttag gcacagcaca atgcccacca ccaccagtgt gccgcacaag
1501 gccgtggcgg tagggtatgt gtctgaaaat gagcgtggag attgggctcg cacggctgac
1561 gcagatggaa gacttaaggc agcggcagaa gaagatgcag gcagctgagt tgttgatttc
1621 tgataagagt cagaggtaac tccggttgcg gtgctgttaa cgggtggagg cagtgtagtc
1681 tgagcagtag tcgttgctgc cgcgcgcgcc accagacata atagctgaca gactaacaga
1741 ctgttccctt ccatgggtct tttctgcagt caccgtcggg ccatgtgtga acttgatatt
1801 ttacatgatt ctctttacca attctgcccc gaattacact taaaacgact caacagctta
1861 acgttggcct gccacgcatt acttgactgt aaaactctca ctcttaccga acttggccgt
1921 aacctgccaa ccaaagcgag aacaaaacat aacatcaaac gaatcgaccg attgttaggt
1981 aatcgtcacc tccacaaaaga gcgactcgct gtataccgtt ggcagtgtag ctttatctgt
2041 tcgggcaata cgatgcccat tgtacttgtt gactggtctg atattctgta gcaaaaacga
2101 cttatgggat tgcgagcttc agtcgcacta caccggtcgt ctgttactct ttatgagaaa
2161 gcgttcccg cttcagagca atgttcaaag aaagctcatg accaatttct agccgacctt
2221 gcgagcattc taccgagtaa caccacaccg ctcatgttca gtgatgctgg ctttaaagtg
2281 ccatgggtata aatccgttga gaagctgggt tggtagctgt taagtcgagt aagaggaaaa
2341 gtacaatatg cagacctagg agcggaaaac tggaaaacta tcagcaactt acatgatatg
2401 tcatctagtc actcaaagac tttaggctat aagaggctga ctaaaagcaa tccaatctca
2461 tgccaaattc tattgtataa atctcgctct aaaggccgaa aaaatcagcg ctcgacacgg
2521 actcattgtc accacccgtc acctaaaatc tactcagcgt cggcaaagga gccatgggtt
2581 ctagcaacta acttacctgt tgaaattcga acacccaaac aacttgtaa tatctattcg
2641 aagcgaatgc agattgaaga aaccttccga gacttgaaaa gtcctgccta cggactaggc
2701 ctacgccata gccgaacgag cagctcagag cgttttgata tcatgtgctt aatcgccctg
2761 atgcttcaac taacatgttg gcttgccggc gttcatgtct agaaacaagg ttgggacaag
2821 cacttccagg ctaacacagt cagaaaatga aacgtactct caacagttcg cttaggcatg
2881 gaagttttgc ggcattctgg ctacacaata acaagggaag acttactcgt ggctgcaacc
2941 ctactagctc aaaattttatt cacacatggt tacgctttgg ggaaattatg ataatgatcc
3001 agatcacttc tggctaataa aagatcagag ctctagagat ctgtgtgttg gttttttgtg
3061 gatctgctgt gccttctagt tgccagccat ctgttgtttg cccctcccc gtgecttctt
3121 tgaccctgga aggtgccact cccactgtcc tttcctaata aaatgaggaa attgcatcgc
3181 attgtctgag taggtgtcat tctattcttg ggggtggggg ggggcagcac agcaaggggg
3241 aggattggga agacaatagc aggcattcgt gggatgcggt gggctctatg ggtacctctc
3301 tctctctctc tctctctctc tctctctctc tctctcgta cctctctctc tctctctctc
3361 tctctctctc tctctctctc tcggtaccag gtgctgaaga attgaccggg tgaccaaaag
3421 tgccctttat catcacttta aaaataaaaa acaattactc agtgcctgtt ataagcagca
3481 attaatatg attgatgcct acatcacaa caaaactgat ttaacaaatg gttggtctgc
3541 cttagaaagt atatttgaac attatcttga ttatattatt gataataata aaaaccttat
3601 ccctatccaa gaagtgtatg ctatcattgg ttggaatgaa cttgaaaaaa attagccttg
3661 aatacattac tggtaaggta aacgccattg tcagcaaatg gatccaagag aaccaactta
3721 aagctttcct gacggaatgt taattctcgt tgaccctgag cactgatgaa tcccctaag
3781 attttggtaa aaatcattaa gttaagggtg atacacatct tgtcatatga tcccggtaat
3841 gtgagtttag tcaactatta ggcacccag gctttacact ttatgcttcc ggctcgtatg
3901 ttgtgtggaa ttgtgagcgg ataacaattt cacacaggaa acagctatga ccatgattac
3961 gccaaagcgg caattaaccc tactaaagg gaacaaaagc tggagctcca ccgcggtggc
4021 ggccgctcta gaactagtgg atccccccg ggtgcagaa aaatgccagg tggactatga
4081 actcacatcc aaaggagctt gacctgatac ctgattttct tcaaaactgg gaaacaacac
4141 aatcccacaa aacagctcag agagaaacca tcaactgatg ctacagcacc aaggtatgca
4201 atggcaatcc attcgacatt catctgtgac ctgagcaaaa tgatttatct ctccatgaat
4261 ggttgcttct tccctcatg aaaaggcaat tccacactc acaatatgca acaaagacaa
4321 acagagaaca attaatgtgc tcttctctaa tgtcaaaatt gtagtggcaa agaggagaac
4381 aaaatctcaa gttctgagta ggttttagtg attggataag aggtcttgac ctgtgagctc
4441 acctggactt catatccttt tggataaaaa gtgcttttat aactttcagg tctccgagtc
4501 tttattcatg agactgttgg tttagggaca gaccacaaat gaaatgcctg gcataggaaa
4561 gggcagcaga gccttagctg accttttctt gggacaagca ttgtcaaaca atgtgtgaca
4621 aaactatttg tactgctttg cacagctgtg ctgggcaggg caatccattg ccacctatcc

```

```

4681 caggtaacct tccaactgca agaagattgt tgcttactct ctctagaaag cttctgcaga
4741 ctgacatgca tttcataggt agagataaca tttactggga agcacatcta tcatcataaa
4801 aagcaggcaa gattttcaga ctttcttagt ggctgaaata gaagcaaaag acgtgattaa
4861 aaacaaaatg aaacaaaaaa aatcagttga tacctgtggg gtagacatcc agcaaaaaaa
4921 tattatttgc actaccatct tgtcttaagt cctcagactt ggcaaggaga atgtagattt
4981 ctacagtata tatgttttca caaaagggaag gagagaaaca aaagaaaatg gcactgacta
5041 aacttcagct agtggatatag gaaagtaatt ctgcttaaca gagattgcag tgatctctat
5101 gtatgtcctg aagaattatg ttgtactttt ttccccatt tttaaatcaa acagtgcctt
5161 acagagggtca gaatggtttc tttactgttt gtcaattcta ttatttcaat acagaacaat
5221 agcttctata actgaaatat atttgctatt gtatattatg attgtccctc gaaccatgaa
5281 cactcctcca gctgaatttc acaattcctc tgtcatctgc caggccatta agttattcat
5341 ggaagatctt tgaggaacac tgcaagttca tatcataaac acatttgaaa ttgagtattg
5401 ttttgcattg tatggagcta tgttttctg tatcctcaga aaaaaagttt gttataaagc
5461 attccagccc ataaaaagat agattttaat attccagcta taggaaagaa agtgcgtctg
5521 ctcttcactc tagtctcagt tggctccttc acatgcatgc ttctttattt ctctattttt
5581 gtcaagaaaa taatagggtca cgtcttgttc tcaattatgt cctgcctagc atggctcaga
5641 tgcacgttgt agatacaaga aggatcaaat gaaacagact tctggctctg tactacaacc
5701 atagtaataa gcacactaac taataattgc taattatgtt ttccatctct aaggttccca
5761 catttttctg ttttcttaaa gatcccatca tctggttgta actgaagctc aatggaacat
5821 gagcaatatt tcccagctct ctctcccatc caacagtcct gatggattag cagaacaggg
5881 agaaaaacaca ttgttaccca gaattaaaaa ctaatatattg ctctccattc aatccaaaat
5941 ggacctattg aaactaaaat ctaaccctaat cccattaaat gatttctatg gcgtcaaaag
6001 tcaaaacttct gaaggggaacc tgtgggtggg tcacaattca ggctatata tccccagggc
6061 tcagccagtg gatcaacata cagctagaaa gctgtattgc ctttagcact caagctcaaa
6121 agacaactca gagttcacca tgggctccat cggcgagca agcatggaat tttgttttga
6181 tgtattcaag gagctcaaag tccaccatgc caatgagaac atcttctact gccctattgc
6241 catcatgtca gctctagcca tggataacct ggggtgcaaaa gacagcacca ggacacagat
6301 aaataaggtt gttcgtttt ataaacttcc aggattcgga gacagtattg aagctcagtg
6361 tggcacatct gtaaacgttc actcttctact tagagacatc ctcaaccaa tcaccaaac
6421 aaatgatgtt tattcgttca gccttgccag tagactttat gctgaagaga gatacccaat
6481 cctgccagaa tacttgagtg gtgtgaagga actgtataga ggaggcttgg aacctatcaa
6541 ctttcaaaca gctgcagatc aagccagaga gctcatcaat tcttgggtag aaagtcagac
6601 aaatggaatt atcagaaaatg tctctcagcg aagctccgtg gattctcaaa ctgcaatggg
6661 tctggttaat gccattgtct tcaaaggact gtgggagaaa acattttagg atgaagacac
6721 acaagcaatg cctttcagag tgactgagca agaaagcaaa cctgtgcaga tgatgtacca
6781 gattggttta ttttagagtg catcaatggc ttctgagaaa atgaagatcc tggagcttcc
6841 atttgccagt gggacaatga gcatgttggt gctgttgcct gatgaagtct caggccttga
6901 gcagcttgag agtataatca actttgaaaa actgactgaa tggaccagtt ctaatgttat
6961 ggaagagagg aagatcaaag tgtacttacc tgcagtaag atggaggaaa aatacaacct
7021 cacatctgtc ttaatggcta tgggcattac tgacgtgttt agctcttacc ccaatctgtc
7081 tggcatctcc tcagcagaga gcctgaagat atctcaagct gtccatgcag cacatgcaga
7141 aatcaatgaa gcaggcagag aggtggtagg gtcagcagag gctggagtgg atgctgcaag
7201 cgtctctgaa gaatttaggg ctgaccatcc attcctcttc tgtatcaagc acatcgcaac
7261 caacgccgtt ctcttctttg gcagatgtgt ttctccgcgg ccagcagatg acgcaccagc
7321 agatgacgca ccagcagatg acgcaccagc agatgacgca ccagcagatg acgcaccagc
7381 agatgacgca acaacatgta tcctgaaagg ctcttgtggc tggatcgggc tgctggatga
7441 cgatgacaaa tttgtgaacc aacacctgtg cggtcacac ctgggtggaag ctctctacct
7501 agtgtgcggg gaacgaggtc tcttctacac acccaagacc cgccgggagg cagaggacct
7561 gcaggtgggg caggtggagc tgggccccgg ccctgggtgca ggcagcctgc agcccttggc
7621 cctggagggg tccttgcaga agcgtggcat tgtggaacaa tgctgtacca gcatctgctc
7681 cctctaccag ctggagaact actgcaacta gggcgccctaa agggcgaatt atcgcgcccg
7741 ctctagacca ggcgcctgga tccagatcac ttctggctaa taaaagatca gagctctaga
7801 gatctgtgtg ttgggttttt gtggatctgc tgtgcttctc agttgccagc catctgttgt
7861 ttgccccctc cccgtgcctt ccttgacctt ggaagggtgc actccactg tcctttccta
7921 ataaaaatgag gaaattgcat cgcattgtct gagtaggtgt cattctattc tggggggtgg
7981 ggtggggcag cacagcaagg gggaggattg ggaagacaat agcaggcatg ctggggatgc
8041 ggtgggctct atgggtacct ctctctctct ctctctctct ctctctctct ctctctctct
8101 gtacctctct cgaggggggg cccggtacct aattcgccct atagttagtc gtattacgcg
8161 cgctcacttg ccgtcgtttt acaacgtcgt gactgggaaa accctggcgt taccacaact
8221 aatcgccctt cagcacatcc ccctttcgcc agctggcgta atagcgaaga ggcccgacc
8281 gatcgccctt ccaacagtt gcgcagcctg aatggcgaat ggaaattgta agcgttaata
8341 ttttgttaaa attcgcgtta aatttttgtt aaatcagctc attttttaac caataggccg
8401 aaatcgccaa aatcccttat aaatcaaaag aatagaccga gatagggttg agtgttgttc

```

```

8461 cagtttggaa caagagtcca ctattaaaga acgtggactc caacgtcaaa gggcgaaaaa
8521 ccgtctatca gggcgatggc ccactactcc gggatcatat gacaagatgt gtatccacct
8581 taacttaatg atttttacca aaatcattag gggattcatc agtgctcagg gtcaacgaga
8641 attaacattc cgtcaggaaa gcttatgatg atgatgtgct taaaaactta ctcaatggct
8701 ggttatgcat atcgcaatac atgcgaaaaa cctaaaagag cttgccgata aaaaaggcca
8761 atttattgct atttaccgcg gctttttatt gagcttgaaa gataaataaa atagataggt
8821 tttatttgaa gctaaatcct ctttatcgta aaaaatgccc tcttgggtta tcaagagggt
8881 cattatattt cgcggaataa catcatttgg tgacgaaata actaagcact tgtctcctgt
8941 ttactcccct gagcttgagg ggttaacatg aaggctcatg atagcaggat aataatacag
9001 taaaacgcta aaccaataat ccaaataccag ccatcccaaa ttggtagtga atgattataa
9061 ataacagcaa acagtaatgg gccataaaca ccggttgcat tggtaaaggct caccaataat
9121 ccctgtaaag caccctgtcg atgactcttt gtttgatag acatcactcc ctgtaatgca
9181 ggtaaaagca tcccaccacc agccaataaa attaaaacag ggaaaactaa ccaaccttca
9241 gatataaacg ctaaaaaggc aaatgacta ctatctgcaa taaatccgag cagtactgcc
9301 gttttttcgc ccattttagt gctattcttc ctgccacaaa ggcttggaat actgagtgtg
9361 aaagaccaag acccgtaatg aaaagccaac catcatgcta ttcacatca cgatttctgt
9421 aatagacca caccgtgctg gattggctat caatgcgctg aaataataat caacaaatgg
9481 catcgtaaaa taagtgatgt ataccgatca gcttttgttc cctttagtga gggtaattg
9541 cgcgcttggc gtaatcatgg tcatagctgt ttcctgtgtg aaattgttat ccgctcacia
9601 tttccacaca catacgagcc ggaagcataa agtgtaaaag ctgggggtgc taatgagtga
9661 gctaactcac attaatgctg ttgcgctcac tgcccgttt ccagtcggga aacctgtcgt
9721 gccagctgca ttaatgaatc ggccaacgcg cggggagagg cgggttgctg attggcgct
9781 cttccgcttc ctgcgtcact gactcgtctg gctcggctgt tcggctgcgg cgagcgggtat
9841 cagctcactc aaaggcggtg atacggttat ccacagaatc aggggataac gcaggaaaga
9901 acatgtgagc aaaaggccag caaaaggcca ggaaccgtaa aaaggccgct ttgctggcgt
9961 ttttccatag gctccgcccc cctgacgagc atcacaaaaa tcgacgtcta agtcagaggt
10021 ggcgaaacc gacaggacta taaagatacc aggcgtttcc ccctggaagc tccctcgtgc
10081 gctctcctgt tccgacctg ccgcttaccg gatacctgtc cgcctttctc cttcgggaa
10141 gcgtggcgct ttctcatagc tcacgctgta ggtatctcag ttcggtgtag gtcgttcgct
10201 ccaagctggg ctgtgtgcac gaaccccccg ttcagcccg cgcgtgcgc ttatccggtg
10261 actatcgtct tgagtccaac ccggttaagac acgacttacc gccactggca gcagccactg
10321 gtaacaggat tagcagagcg aggtatgtag gcggtgctac agagtctctg aagtgggtggc
10381 ctaactacgg ctacactaga aggacagtat ttggtatctg cgctctgctg aagccagtta
10441 ccttcggaag aagagttggt agctcttgat ccggcaaaac aaccaccgct ggtagcgggtg
10501 gtttttttgt ttgcaagcag cagattacgc gcagaaaaaa aggatctcaa gaagatcctt
10561 tgatcttttc tacggggtct gacgctcagt ggaacgaaaa ctacggttaa gggatttttg
10621 tcatgagatt atcaaaaagg atcttcacct agatcctttt aaattaaaaa tgaagtttta
10681 aatcaatcta aagtatatat gagtaaactt ggtctgacag ttaccaatgc ttaatcagtg
10741 aggcacctat ctacgcgac tgtctatttc gttcatccat agttgcctga ctcccgtcg
10801 tgtagataac tacgatacgg gagggcttac catctggccc cagtgcgtga atgataccgc
10861 gagaccacg ctacccgct ccagatttat cagcaataaa ccagccagcc ggaaggccg
10921 agcgcagaag tggctcctgca actttatccg cctccatcca gtctattaat tgttgcggg
10981 aagctagagt aagtagttcg ccagttaata gtttgcgcaa cgttggtgce attgctacag
11041 gcatcgtggt gtcacgctcg tcgtttggtg tggttcatt cagctccggt tcccaacgat
11101 caaggcgagt tacatgatcc ccatgttgt gcaaaaaagc ggttagctcc ttcggtcctc
11161 cgatcgttgt cagaagtaag ttggccgagc tgttatcact catggttatg gcagcactgc
11221 ataattctct tactgtcatg ccatccgtaa gatgcttttc tgtgactggt gactactcaa
11281 ccaagtcatt ctgagaatag tgtatcgggc gaccgagttg ctcttgcccg gcgtcaatac
11341 gggataatac cgcgccacat agcagaactt taaaagtgtc catcattgga aaacgttctt
11401 cggggcgaaa actctcaagg atcttaccgc tgttgagatc cagttcgatg taaccactc
11461 gtgcacccaa ctgatcttca gcatctttta ctttaccag cgtttctggg tgagcaaaaa
11521 caggaaggca aaatgccgca aaaaagggaa taaggcgac acggaaatgt tgaatactca
11581 tactcttctt ttttcaatat tattgaagca ttatcagggt ttattgtctc atgagcggat
11641 acatatttga atgtatttag aaaaataaac aaataggggt tccgcgcaca tttcccgaa
11701 aagtgccac

```